

Claims

1. Spindle (1) in which the moving part (2) fixed to
5 the tool-holding collet (3) is supported by one or more
aerostatic bushes (4) on cushions of air generated by a
jet of compressed air that circulates continuously
along the air gaps (5) between the aerostatic bushes
10 (4) and the said moving part (2) and passes out of the
spindle (1) through the same co-axial aperture (6)
formed in a flange (7) as that through which the
abovementioned tool-holding collet (3) projects from
the said spindle (1), the said spindle being
15 characterized in that directing means (8) are attached
to the outside of the said flange (7) to collect the
air passing out of the abovementioned aperture (6) and
cause it to adopt an outward direction of motion (E)
that is tangential to or incident on the terminal part
20 (3t) of the tool-holding collet (3) and roughly
parallel to the axis of the said spindle (1).

2. Spindle according to Claim 1, in which the said
directing means take the form of a shaped cap (8) fixed
to the outside of the said flange (7), co-axially with
25 respect to the tool-holding collet (3) in such a way as
to leave at least part of the said collet on the
outside.